DESCRIPTION

Progress in Nuclear Magnetic Resonance Spectroscopy publishes review papers describing research related to the theory and application of NMR spectroscopy. This technique is widely applied in chemistry, physics, biochemistry and materials science, and also in many areas of biology and medicine. The journal publishes review articles covering applications in all of these and in related subjects, as well as in-depth treatments of the fundamental theory of and instrumental developments in NMR spectroscopy.

*©Journal Citation Reports 2016, Published by Thomson Reuters

AUDIENCE

Researchers interested in fundamental research and application of NMR spectroscopy in chemistry, physics, biochemistry, materials science, biology and medicine.

IMPACT FACTOR

2017: 6.000 © Clarivate Analytics Journal Citation Reports 2018

ABSTRACTING AND INDEXING

Research Alert
Current Contents/Physics, Chemical, & Earth Sciences
Science Citation Index
SciSearch
Chemical Abstracts
Index to Scientific Reviews
Scopus

EDITORIAL BOARD

Editors
Geoffrey Bodenhausen, École Normale Supérieure, Paris Cédex 05, France
David Gadian, UCL Great Ormond Street Institute of Child Health, London, England, UK
Dominique Massiot, Centre National de la Recherche Scientifique (CNRS), Orléans, France
Gareth Morris, University of Manchester, Manchester, England, UK
David Neuhaus (Coordinating Editor), MRC Laboratory of Molecular Biology, Cambridge, UK

Founding Editors:
Jim Emsley, University of Southampton, Highfield, Southampton, UK
Jim Feeney, Harpenden, Hertfordshire, UK
Les H. Sutcliffe, Norwich, Norfolk, UK
INTRODUCTION

Progress in Nuclear Magnetic Resonance Spectroscopy publishes review papers describing research related to the theory and application of NMR spectroscopy. This technique is widely applied in chemistry, physics, biochemistry and materials science, and also in many areas of biology and medicine. The journal publishes review articles covering applications in all of these and in related subjects, as well as in-depth treatments of the fundamental theory of and instrumental developments in NMR spectroscopy.

The majority of articles published in the journal are invited by the Editorial Board, but unsolicited articles can also be considered. We ask that authors considering making an unsolicited submission approach the Board with an outline proposal before writing.

BEFORE YOU BEGIN

Ethics in publishing
Please see our information pages on Ethics in publishing and Ethical guidelines for journal publication.

Declaration of interest
All authors must disclose any financial and personal relationships with other people or organizations that could inappropriately influence (bias) their work. Examples of potential competing interests include employment, consultancies, stock ownership, honoraria, paid expert testimony, patent applications/registrations, and grants or other funding. Authors must disclose any interests in two places: 1. A summary declaration of interest statement in the title page file (if double-blind) or the manuscript file (if single-blind). If there are no interests to declare then please state this: 'Declarations of interest: none'. This summary statement will be ultimately published if the article is accepted. 2. Detailed disclosures as part of a separate Declaration of Interest form, which forms part of the journal's official records. It is important for potential interests to be declared in both places and that the information matches. More information.

Submission declaration
Submission of an article implies that the work described has not been published previously (except in the form of an abstract, a published lecture or academic thesis, see 'Multiple, redundant or concurrent publication' for more information), that it is not under consideration for publication elsewhere, that its publication is approved by all authors and tacitly or explicitly by the responsible authorities where the work was carried out, and that, if accepted, it will not be published elsewhere in the same form, in English or in any other language, including electronically without the written consent of the copyright-holder.

Preprints
Please note that preprints can be shared anywhere at any time, in line with Elsevier's sharing policy. Sharing your preprints e.g. on a preprint server will not count as prior publication (see 'Multiple, redundant or concurrent publication' for more information).

Use of inclusive language
Inclusive language acknowledges diversity, conveys respect to all people, is sensitive to differences, and promotes equal opportunities. Articles should make no assumptions about the beliefs or commitments of any reader, should contain nothing which might imply that one individual is superior to another on the grounds of race, sex, culture or any other characteristic, and should use inclusive language throughout. Authors should ensure that writing is free from bias, for instance by using 'he or she', 'his/her' instead of 'he' or 'his', and by making use of job titles that are free of stereotyping (e.g. 'chairperson' instead of 'chairman' and 'flight attendant' instead of 'stewardess').

Changes to authorship
Authors are expected to consider carefully the list and order of authors before submitting their manuscript and provide the definitive list of authors at the time of the original submission. Any addition, deletion or rearrangement of author names in the authorship list should be made only before the manuscript has been accepted and only if approved by the journal Editor. To request such a change, the Editor must receive the following from the corresponding author: (a) the reason for the change in author list and (b) written confirmation (e-mail, letter) from all authors that they agree with the addition, removal or rearrangement. In the case of addition or removal of authors, this includes confirmation from the author being added or removed.
Only in exceptional circumstances will the Editor consider the addition, deletion or rearrangement of authors after the manuscript has been accepted. While the Editor considers the request, publication of the manuscript will be suspended. If the manuscript has already been published in an online issue, any requests approved by the Editor will result in a corrigendum.

**Copyright**

Upon acceptance of an article, authors will be asked to complete a 'Journal Publishing Agreement' (see more information on this). An e-mail will be sent to the corresponding author confirming receipt of the manuscript together with a 'Journal Publishing Agreement' form or a link to the online version of this agreement.

Subscribers may reproduce tables of contents or prepare lists of articles including abstracts for internal circulation within their institutions. Permission of the Publisher is required for resale or distribution outside the institution and for all other derivative works, including compilations and translations. If excerpts from other copyrighted works are included, the author(s) must obtain written permission from the copyright owners and credit the source(s) in the article. Elsevier has preprinted forms for use by authors in these cases.

For gold open access articles: Upon acceptance of an article, authors will be asked to complete an 'Exclusive License Agreement' (more information). Permitted third party reuse of gold open access articles is determined by the author's choice of user license.

**Author rights**

As an author you (or your employer or institution) have certain rights to reuse your work. More information.

Elsevier supports responsible sharing

Find out how you can share your research published in Elsevier journals.

**Role of the funding source**

You are requested to identify who provided financial support for the conduct of the research and/or preparation of the article and to briefly describe the role of the sponsor(s), if any, in study design; in the collection, analysis and interpretation of data; in the writing of the report; and in the decision to submit the article for publication. If the funding source(s) had no such involvement then this should be stated.

**Funding body agreements and policies**

Elsevier has established a number of agreements with funding bodies which allow authors to comply with their funder's open access policies. Some funding bodies will reimburse the author for the gold open access publication fee. Details of existing agreements are available online.

**Open access**

This journal offers authors a choice in publishing their research:

**Subscription**

- Articles are made available to subscribers as well as developing countries and patient groups through our universal access programs.
- No open access publication fee payable by authors.
- The Author is entitled to post the accepted manuscript in their institution's repository and make this public after an embargo period (known as green Open Access). The published journal article cannot be shared publicly, for example on ResearchGate or Academia.edu, to ensure the sustainability of peer-reviewed research in journal publications. The embargo period for this journal can be found below.

**Gold open access**

- Articles are freely available to both subscribers and the wider public with permitted reuse.
- A gold open access publication fee is payable by authors or on their behalf, e.g. by their research funder or institution.

Regardless of how you choose to publish your article, the journal will apply the same peer review criteria and acceptance standards.

For gold open access articles, permitted third party (re)use is defined by the following Creative Commons user licenses:
Creative Commons Attribution (CC BY)
Let others distribute and copy the article, create extracts, abstracts, and other revised versions, adaptations or derivative works of or from an article (such as a translation), include in a collective work (such as an anthology), text or data mine the article, even for commercial purposes, as long as they credit the author(s), do not represent the author as endorsing their adaptation of the article, and do not modify the article in such a way as to damage the author's honor or reputation.

Creative Commons Attribution-NonCommercial-NoDerivs (CC BY-NC-ND)
For non-commercial purposes, lets others distribute and copy the article, and to include in a collective work (such as an anthology), as long as they credit the author(s) and provided they do not alter or modify the article.

The gold open access publication fee for this journal is USD 3300, excluding taxes. Learn more about Elsevier's pricing policy: https://www.elsevier.com/openaccesspricing.

Green open access
Authors can share their research in a variety of different ways and Elsevier has a number of green open access options available. We recommend authors see our open access page for further information. Authors can also self-archive their manuscripts immediately and enable public access from their institution's repository after an embargo period. This is the version that has been accepted for publication and which typically includes author-incorporated changes suggested during submission, peer review and in editor-author communications. Embargo period: For subscription articles, an appropriate amount of time is needed for journals to deliver value to subscribing customers before an article becomes freely available to the public. This is the embargo period and it begins from the date the article is formally published online in its final and fully citable form. Find out more.

This journal has an embargo period of 24 months.

Elsevier Researcher Academy
Researcher Academy is a free e-learning platform designed to support early and mid-career researchers throughout their research journey. The "Learn" environment at Researcher Academy offers several interactive modules, webinars, downloadable guides and resources to guide you through the process of writing for research and going through peer review. Feel free to use these free resources to improve your submission and navigate the publication process with ease.

LANGUAGE AND LANGUAGE SERVICES
Please write your text in good English (American or British usage is accepted, but not a mixture of these). Authors who feel their English language manuscript may require editing to eliminate possible grammatical or spelling errors and to conform to correct scientific English may wish to use the English Language Editing service available from Elsevier's WebShop http://webshop.elsevier.com/languagediting/ or visit our customer support site http://service.elsevier.com for more information. For British vocabulary, see the Oxford English Dictionary, for American see Webster's dictionary.

Submit your article
Please submit your article for Progress in NMR Spectroscopy via the website at http://ees.elsevier.com/pnmrs.

The majority of articles in the Journal are invited by the Editors, but other intending authors may submit summaries of proposed reviews to the Co-ordinating Editor (e-mail dn@mrc-lmb.cam.ac.uk) for consideration for publication.

MANUSCRIPT PREPARATION

Article Structure
Manuscripts should be organized in the following order
• Cover Page; this should include the title of the article, names of all authors, affiliations (give fax, telephone numbers and e-mail addresses), numbers of pages, figures and tables and up to five keywords for indexing. The corresponding author must be indicated.
• Abstract
• Table of contents
• Introduction
• Main text
• Conclusions
• Acknowledgements
• Appendices
•References
•Glossary

**General Points**

For initial submission at the Editorial stage, two options are possible:

• (i) Authors may upload a combined Word (or PDF) file containing the entire manuscript, with Display Items (Figures, Tables, Captions etc.) embedded at positions of their choosing either within the body of the text or at the end. Such a combined file is simpler to submit and is preferred at the Editorial stage as it can greatly facilitate the editorial process.

• (ii) Authors may submit separate source files for text, figures and tables.

Please note: a Word file for the manuscript is greatly preferred by the Editors, as this allows changes and comments to be conveniently tracked when communicating with authors. The EVISE system will always build a PDF file that you will need to approve to allow the submission process to complete, but if you have uploaded a Word file for the manuscript, the system-generated PDF file will normally not be used by the Editors.

Manuscripts must be written in clear and concise English.

Footnotes should be used sparingly if at all; they should be indicated by superscript numbers and kept as short as possible.

Excessive use of italics for emphasis should be avoided.

The use of nomenclature and symbols adopted by IUPAC is recommended; see "Quantities, Units and Symbols in Physical Chemistry":


Abbreviations in the text should be defined on first occurrence (as well as in the Glossary of Abbreviations). For abbreviations of names of techniques and methods, always use capitals and no full stops, e.g. NMR, GLC, IR, DFT.

Elsevier reserves the privilege of returning to the author for revision accepted manuscripts and illustrations that are not in the proper form given in this guide.

**Use of word processing software**

It is important that the file be saved in the native format of the word processor used. The text should be in single-column format. Keep the layout of the text as simple as possible. Most formatting codes will be removed and replaced on processing the article. In particular, do not use the word processor's options to justify text or to hyphenate words. However, do use bold face, italics, subscripts, superscripts etc. When preparing tables, if you are using a table grid, use only one grid for each individual table and not a grid for each row. If no grid is used, use tabs, not spaces, to align columns. The electronic text should be prepared in a way very similar to that of conventional manuscripts (see also the Guide to Publishing with Elsevier). Note that source files of figures, tables and text graphics will be required whether or not you embed your figures in the text. See also the section on Electronic artwork.

To avoid unnecessary errors you are strongly advised to use the 'spell-check' and 'grammar-check' functions of your word processor.

**LaTeX**

Upload a PDF with File Type Manuscript alongside a bundled zip of all your LaTeX files with File Type LaTeX Source (please do not use File Type Manuscript for the source file or the upload will fail). See our LaTeX submission instructions for more information: (https://www.elsevier.com/authors/author-schemas/latex-instructions).

**Abstract**

This should be completely self-contained (no references), maximum length 500 words, and should be placed in the manuscript between the Title page and Table of Contents. Do not include the Abstract in the Section Numbering scheme.

**Headings**

Section titles must be in bold typeface, sub-section headings in italics. Text references should appear as:

- Fig. 1
- Table 2.
- Eq. (26)

Section, Appendix start with capitals.

Sections, sub-sections, and sub-sub-sections are labelled in Arabic numerals, for example:

5. Using RDCs for the study of molecular dynamics of proteins and nucleic acids
5.1. Domain dynamics in biomolecules
5.2. RDCs for the study of local backbone dynamics in proteins
5.2.1. Local alignment tensor analysis and generalised order parameters
5.2.2. Model-free approaches to the characterisation of the dynamics of inter-nuclear bond vectors

Use this numbering scheme also for internal cross-referencing: do not just refer to the text. Any subsection may be given a brief heading. Each heading should appear on its own separate line.

Graphical abstract
A graphical abstract is mandatory for this journal. It should summarize the contents of the article in a concise, pictorial form designed to capture the attention of a wide readership online. Authors must provide images that clearly represent the work described in the article. Graphical abstracts should be submitted as a separate file in the online submission system. Image size: please provide an image with a minimum of 531 × 1328 pixels (h × w) or proportionally more. The image should be readable at a size of 5 × 13 cm using a regular screen resolution of 96 dpi. Preferred file types: TIFF, EPS, PDF or MS Office files. You can view Example Graphical Abstracts on our information site. Authors can make use of Elsevier’s Illustration Services to ensure the best presentation of their images also in accordance with all technical requirements.

Highlights
Highlights are mandatory for this journal. They consist of a short collection of bullet points that convey the core findings of the article and should be submitted in a separate editable file in the online submission system. Please use 'Highlights' in the file name and include 3 to 5 bullet points (maximum 85 characters, including spaces, per bullet point). You can view example Highlights on our information site.

Formatting of funding sources
List funding sources in this standard way to facilitate compliance to funder's requirements:

Funding: This work was supported by the National Institutes of Health [grant numbers xxxx, yyyy]; the Bill & Melinda Gates Foundation, Seattle, WA [grant number zzzz]; and the United States Institutes of Peace [grant number aaaa].

It is not necessary to include detailed descriptions on the program or type of grants and awards. When funding is from a block grant or other resources available to a university, college, or other research institution, submit the name of the institute or organization that provided the funding.

If no funding has been provided for the research, please include the following sentence:

This research did not receive any specific grant from funding agencies in the public, commercial, or not-for-profit sectors.

Artwork
General points
• Make sure you use uniform lettering and sizing of your original artwork.
• Save text in illustrations as graphics, or include the font in the graphics file.
• Only use the following fonts in your illustrations: Arial, Courier, Times, Symbol.
• Number the illustrations according to their sequence in the text.
• Illustrations in more than two parts should be clearly labelled (a), (b), etc., in reproducible lettering when they are referred to separately. Either upper or lower case labels are acceptable for identifying parts of figures, but usage should be consistently one or the other throughout the article.
• Ensure that all illustrations are referred to in the text, and ensure that all illustrations cited in the text are supplied in the artwork.
• Use a logical naming convention for your artwork files.
• Provide captions to illustrations separately.
• Produce images near to the desired size of the printed version.
• Ensure that all axes are appropriately labelled. A detailed guide on electronic artwork is available on our website: https://www.elsevier.com/artworkinstructions

You are urged to visit this site; some excerpts from the detailed information are given here.

Formats
If your electronic artwork is created in a Microsoft Office application (Word, PowerPoint, Excel) then please supply 'as is' in the native document format. Regardless of the application used other than Microsoft Office, when your electronic artwork is finalized, please 'Save as' or convert the images to one of the following formats (note the resolution requirements for line drawings, halftones, and line/halftone combinations given below):

- EPS (or PDF): Vector drawings, embed all used fonts.
- TIFF (or JPEG): Color or grayscale photographs (halftones), keep to a minimum of 300 dpi.
- TIFF (or JPEG): Bitmapped (pure black and white pixels) line drawings, keep to a minimum of 1000 dpi.
- TIFF (or JPEG): Combinations bitmapped line/half-tone (color or grayscale), a minimum of 500 dpi is required.

If your electronic artwork is created in a Microsoft Office application (Word, PowerPoint, Excel) then please supply as is.

Please note that the column dimensions in the Journal are 8.9 cm (1-column) and 18.4 cm (2-column); figures should be labeled such that text will remain readable when figures are reduced to these dimensions.

Please do not:

- Supply files that are optimized for screen use (e.g., GIF, BMP, PICT, WPG); these typically have a low number of pixels and limited set of colors;
- Supply files that are too low in resolution;
- Submit graphics that are disproportionately large for the content.

Color artwork

Reproduction of colour figures in the printed version of the Journal will generally be charged to the author, except for figures where the relevant Editor agrees that use of colour is essential. Authors are asked to contact the relevant Editor to discuss whether colour reproduction charges will be incurred in specific cases. However, please note that colour figures may be included in the on-line version of the Journal free of charge. When preparing figures that will appear in colour only in the on-line version, please also supply monochrome versions for use in the print version and ensure that they are legible.

Figure captions

Ensure that each illustration has a caption. Supply captions separately, not embedded in the figure. A caption should comprise a brief title, a description of the illustration and definitions of axes where appropriate. Keep text in the illustrations themselves to a minimum, but explain in the caption all symbols and abbreviations used. All figure captions of figures showing NMR spectra must indicate the operating field strength (in Tesla) or Larmor frequency (in MHz).

Tables

Please submit tables as editable text and not as images. Tables can be placed either next to the relevant text in the article, or on separate page(s) at the end. Number tables consecutively in accordance with their appearance in the text and place any table notes below the table body. Be sparing in the use of tables and ensure that the data presented in them do not duplicate results described elsewhere in the article. Please avoid using vertical rules and shading in table cells.

Formulae

Equations should be sequentially numbered on the right hand side of the equation and in parentheses. In appendices use A1, etc. The use of fractional powers instead of root signs is recommended. Exponential functions are more conveniently denoted by exp ().

References

Citation in text

Please ensure that every reference cited in the text is also present in the reference list (and vice versa). Any references cited in the abstract must be given in full. Unpublished results and personal communications are not recommended in the reference list, but may be mentioned in the text. If these references are included in the reference list they should follow the standard reference style of the journal and should include a substitution of the publication date with either 'Unpublished results' or 'Personal communication'. Citation of a reference as 'in press' implies that the item has been accepted for publication and a copy of the title page of the relevant article must be submitted.
**Data references**

This journal encourages you to cite underlying or relevant datasets in your manuscript by citing them in your text and including a data reference in your Reference List. Data references should include the following elements: author name(s), dataset title, data repository, version (where available), year, and global persistent identifier. Add [dataset] immediately before the reference so we can properly identify it as a data reference. The [dataset] identifier will not appear in your published article.

**Reference management software**

Most Elsevier journals have their reference template available in many of the most popular reference management software products. These include all products that support Citation Style Language styles, such as Mendeley. Using citation plug-ins from these products, authors only need to select the appropriate journal template when preparing their article, after which citations and bibliographies will be automatically formatted in the journal’s style. If no template is yet available for this journal, please follow the format of the sample references and citations as shown in this Guide. If you use reference management software, please ensure that you remove all field codes before submitting the electronic manuscript. More information on how to remove field codes from different reference management software.

Users of Mendeley Desktop can easily install the reference style for this journal by clicking the following link:


When preparing your manuscript, you will then be able to select this style using the Mendeley plug-ins for Microsoft Word or LibreOffice.

**Reference style**

**Text:** Indicate references by number(s) in square brackets in line with the text. The actual authors can be referred to, but the reference number(s) must always be given.

Example: '..... as demonstrated [3,6]. Barnaby and Jones [8] obtained a different result ....'

**List:** Number the references (numbers in square brackets) in the list in the order in which they appear in the text.

Examples:

Reference to a journal publication:

Reference to a journal publication with an article number:

Reference to a book:

Reference to a chapter in an edited book:

Reference to a website:

Reference to a dataset:

**Glossary**

All abbreviations used in the article should be defined in an alphabetical list.

**Data visualization**

Include interactive data visualizations in your publication and let your readers interact and engage more closely with your research. Follow the instructions here to find out about available data visualization options and how to include them with your article.

**Data linking**

If you have made your research data available in a data repository, you can link your article directly to the dataset. Elsevier collaborates with a number of repositories to link articles on ScienceDirect with relevant repositories, giving readers access to underlying data that gives them a better understanding of the research described.
There are different ways to link your datasets to your article. When available, you can directly link your dataset to your article by providing the relevant information in the submission system. For more information, visit the database linking page.

For supported data repositories a repository banner will automatically appear next to your published article on ScienceDirect.

In addition, you can link to relevant data or entities through identifiers within the text of your manuscript, using the following format: Database: xxxx (e.g., TAIR: AT1G01020; CCDC: 734053; PDB: 1XFN).

**Submission checklist**
The following list will be useful during the final checking of an article prior to sending it to the journal. Please consult this Guide for Authors for further details of any item.

*Ensure that the following items are present:*
One author has been designated as the corresponding author with contact details:
- E-mail address
- Full postal address
- Telephone and fax numbers

All necessary files have been uploaded, and contain:
- All figure captions
- All tables (including title, description, footnotes)

**Further considerations:**
- Manuscript has been 'spell-checked' and 'grammar-checked'
- References are in the correct format for this journal
- All references mentioned in the Reference list are cited in the text, and vice versa
- Permission has been obtained for use of copyrighted material from other sources (including the Web)
- Colour figures are clearly marked as being intended for colour reproduction on the Web and in print (may be chargeable, see Colour Artwork section above), or to be reproduced in colour on the Web and in black-and-white in print (free of charge).
- If only colour on the Web is required, black-and-white versions of the figures are also supplied for printing purposes. For any further information please visit our customer support site at http://service.elsevier.com.

**AFTER ACCEPTANCE**

*Online proof correction*
Corresponding authors will receive an e-mail with a link to our online proofing system, allowing annotation and correction of proofs online. The environment is similar to MS Word: in addition to editing text, you can also comment on figures/tables and answer questions from the Copy Editor. Web-based proofing provides a faster and less error-prone process by allowing you to directly type your corrections, eliminating the potential introduction of errors.
If preferred, you can still choose to annotate and upload your edits on the PDF version. All instructions for proofing will be given in the e-mail we send to authors, including alternative methods to the online version and PDF.
We will do everything possible to get your article published quickly and accurately. Please use this proof only for checking the typesetting, editing, completeness and correctness of the text, tables and figures. Significant changes to the article as accepted for publication will only be considered at this stage with permission from the Editor. It is important to ensure that all corrections are sent back to us in one communication. Please check carefully before replying, as inclusion of any subsequent corrections cannot be guaranteed. Proofreading is solely your responsibility.

*Offprints*
The corresponding author will, at no cost, receive a customized Share Link providing 50 days free access to the final published version of the article on ScienceDirect. The Share Link can be used for sharing the article via any communication channel, including email and social media. For an extra charge, paper offprints can be ordered via the offprint order form which is sent once the article is accepted for publication. Both corresponding and co-authors may order offprints at any time via
Elsevier's Webshop. Corresponding authors who have published their article gold open access do not receive a Share Link as their final published version of the article is available open access on ScienceDirect and can be shared through the article DOI link.

**AUTHOR INQUIRIES**
Visit the Elsevier Support Center to find the answers you need. Here you will find everything from Frequently Asked Questions to ways to get in touch.
You can also check the status of your submitted article or find out when your accepted article will be published.